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REWRITABLE OPTICAL DISC (DVD_RTR DISC) 1001 INNER SIDE 1006 OUTER SIDE 1007 VOL. & FILE LEAD-IN DATA AREA LEAD-OUT **AREA** 1002 MANAGER 1004 AREA 1005 (B) INFO. 1003 (EMBOSSED/ (REWRITABLE (REWRITABLE REWRITABLE (REWRITABLE DATA ZONE) DATA ZONE) DATA ZONE) DATA ZONE COMPUTER AUDIO & VIDEO COMPUTER (C) DATA AREA 1008 DATA AREA 1009 DATA AREA 1010 **ANCHOR** CONTROL THUMB-POINTER VIDEO PICTURE **AUDIO** INFO. NAIL FOR CONT-**OBJECTS OBJECTS OBJECTS** 1011 **OBJECTS** ROL INFO. 1012 1013 1014 (RTR. 1F0) 1016 1015 AV DATA PLAYBACK RECORDING EDIT THUMBNA IL CONTROL CONTROL CONTROL CONTROL CONTROL INFO. 1101 INFO. 1021 INFO. 1022 INFO. 1023 INFO. 1024 (RTR_VMG) ALLOC-VIDEO VIDEO PGC CELL TITLE SET ATION **OBJECT** CONTROL **PLAYBACK** (F) INFO. 1106 INFO. 1103 INFO. 1108 MAP TABLE INFO. 1107 (RTR_VMGI) (PGCI) (CI)1105 (AVFIT)

FIG. 1

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ROOT DIRECTORY 1450 SUB DIRECTORY 1451 REWRITABLE TITLE SET RW_VTS 1452 (DVD_RTR DIRECTORY) RTR=REAL TIME RECORDING DATA FILES 1453 CONTROL INFORMATION 1011 =RW_VIDEO_CONTROL.IFO (RTR.IFO) BACKUP OF CONTROL INFO. =RW_VIDEO CONTROL.BUP AV FILE 1401 (RTR DATA) =RW_OBJECT.OB VIDEO OBJECT (RTR_MOV. VRO) 1012 PICTURE OBJECT (RTR_STO.VRO) 1013 AUDIO OBJECT (RTR_STA. VRO) 1014 THUMBNAIL OBJECT 1016 REWRITABLE ADDITIONAL INFO. 1454 =RW_ADD. DAT SUB DIRECTORY 1451 VIDEO TITLE SET VIDEO_TS (OR VTS) 1455 AUDIO TITLE SET AUDIO_TS (OR ATS) 1456 SUB DIRECTORY FOR COMPUTER DATA STORAGE 1457

AV FILE 1401 (A)VTS (OR RTR_MOV. VRO) 1402 (B); PTT (OR CHAPTER) 1407 PTT 1408 VOB **VOB 1403** VOB 1405 (C) 1404 **VOBU VOBU** VOBU **VOBU 1411** 1412 1413 1414 (D) SP_ DM_ PCK PCK **PCK** PCK PCK. **PCK** PCK (E)1426 1427 1425 1421 1422 1423 1424 SEC-SEC-SEC-SEC-SEC-SEC-SEC-**TOR** TOR TOR TOR TOR TOR TOR 1436 1437 1433 1435 1431 1432 1434 VIDEO **AUDIO** SIZE OF EACH SECTOR=2048 BYTES **PART PART** CELL **CELL CELL** (G): 1442 1443 1441 PGC (OR PGCI) 1446 (H)AUDIO FRAME AUDIO FRAME SUB-PICTURE SEQ. I-PICTURE GOP_ SEQ._ UNIT SPU END_ HEADER (V_PACKS) **HEADER** (SP_PACKS) CODE FIG. 3

က		LSNg
0B # (3) 1465	XTEN #ε 1475	
>	ш	LSNf+1
DED	-	LSNf
ECORI AREA 1460	ХТЕN # ζ 1470	
UNR	ш	LSNe+1
7	_	LSNe
0B #; 1462	XTEN #β 1472	
>	Ш	LSNd+1
3	_	LSNd
08 # (2) 1464	XTEN #δ 1474	
>	Ш	LSNc+1
		LSNc
#1	ENT 71	
V0B	# 4	LSNb+2
		LSNb+1
		LSNb
V0B (1	EX # 4	LSNa+2
		LSNa+1
	VOB #1 VOB #3 VOB #2 UNRECORDED (2) AREA 1461 1464 1462 1460	V0B #1 V0B #3 (2) 1461 EXTENT EXTENT #α #δ 1471 1474

LARGER LOGICAL SECTOR NUMBER (LSN) → OUTER SIDE OF OPTICAL DISC 1001→ ←SMALLER LOGICAL SECTOR NUMBER (LSN) ←INNER SIDE OF OPTICAL DISC 1001

F16.4

CONTENTS OF		NUMBER OF EXTENTS IN UNRECORDED AREA 1601	1
ALLOCATION MAP TABLE		1ST ADR. (LSN) OF 1ST	
1105		EXTENT IN UNRECORDED	e-a
1103	(AREA 1606	
DISTRIBUTION		SIZE (SECTORS) OF 1ST	
INFORMATION OF		EXTENT IN UNRECORDED	f -e
POSITIONS OF	l /	AREA 1614	
UNRECORDED		NUMBER OF EXTENTS	1
AREA 1621		IN VOB #1 1602	
		1ST ADR. (LSN) OF 1ST	b–a
DISTRIBUTION		EXTENT IN VOB #1 1607	. D u
INFORMATION OF		SIZE (SECTORS) OF 1ST	o b
POSITIONS OF		EXTENT IN VOB #1 1615	c–b
RECORDED DATA		NUMBER OF EXTENTS	•
AS TO VOB #1 1622		IN VOB #2 1603	i
1022		1ST ADR. (LSN) OF 1ST	
DISTRIBUTION	. 0	EXTENT IN VOB #2 1608	d–a
INFORMATION OF	+	SIZE (SECTORS) OF 1ST	
POSITIONS OF		EXTENT IN VOB #2 1616	e–d
RECORDED DATA		NUMBER OF EXTENTS	
AS TO VOB #2		IN VOB #3 1604	3
1623		1ST ADR. (LSN) OF 1ST	
DISTRIBUTION		EXTENT IN VOB #3 1609	1
INFORMATION OF			
POSITIONS OF		SIZE (SECTORS) OF 1ST	b-a
RECORDED DATA		EXTENT IN VOB #3 1617	
AS TO VOB #3		1ST ADR. (LSN) OF 2ND	c-a
1624		EXTENT IN VOB #3 1610	
	\	SIZE (SECTORS) OF 2ND	d-c
		EXTENT IN VOB #3 1618	
		1ST ADR. (LSN) OF 3RD	f⊸a
		EXTENT IN VOB #3 1611	'-a
	. \	SIZE (SECTORS) OF 3RD	٠, ١
FIG. 5	\setminus	EXTENT IN VOB #3 1619	g–f

PGC CONTROL INFO. (OR UD_PGCIT) 1103 PGC INFORMATION MANAGEMENT INFO. (OR UD_PGCIT) 1052 PGC INFORMATION PGC GENERAL INFO. SEARCH POINTER #1 (OR PGC_GI) 1061 (UD_PGCI_SRP#1) 1053 PROGRAM INFO. (PGI#1) PGC INFORMATION SEARCH POINTER #n (UD_PGCI_SRP#n) 1054 PROGRAM INFO. PGC INFORMATION #1 (PGI#m) (OR UD_PGCI#1) 1055 CELL ID #1 (OR CI_SRP#1) PGC INFORMATION #i (OR UD_PGCI#i) 1056 CELL ID #m 1151 (OR CI_SRP#m) PGC INFORMATION #n CELL INFO. (CI#1) (OR UD_PGCI#n) 1057 #i=ANY ONE OF #1 TO #n CELL INFO. (CI#n)

- *1> PGC INFORMATION (OR UD_PGCI) CAN DEFINE A GROUP OF ONE OR MORE PROGRAMS;
- *2> EACH PROGRAM CAN BE FORMED OF ONE OR MORE CELLS;
- *3> EACH CELL CAN BE SPECIFIED BY CELL ID (OR CI_SRP);
- *4> EACH CELL ID (OR CI_SRP) CAN INDICATE POSITION (OR START ADDRESS) OF CELL INFORMATION (OR CI);
- *5> EACH CELL INFORMATION (OR CI) CAN DETERMINE START TIME AND END TIME OF PRESENTATION OF CELL

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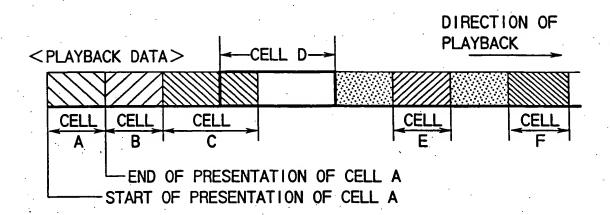


FIG. 7A

PGC INFORMATION (PGCI)

PGC#1	1081	PGC#2	1082	PGC#3	1083
NUMBE CELLS		NUMBE CELLS	R OF S=3	NUMBE CELLS	R OF S=5
#1	CELL A	#1	CELL D	#1	CELL E
#2	CELL B	#2	CELL E	#2	CELL A
#3	CELL C	#3	CELL F	#3	CELL D
. ——	· · ·			#4	CELL B
				#5	CELL E
CELL 1D	CELL INFO.	CELL ID	CELL INFO.	CELL ID	CELL INFO.
CI_SRP #m=3	C1 #n=3	CI_SRP #m=3	CI #n=3	CI_SRP #m = 5	CI #n=4

FIG. 7B

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NUMBER OF VOB IN VTS OR PLAY LIST SEARCH POINTER TABLE INFO. (PL_SRPTI) 1756 1ST VOB_ID IN VOB SEQ. OR 1ST PLAY LIST SEARCH POINTER (PL_SRP#1) 1757 PLAY LIST 2ND VOB_ID IN VOB SEQ. SEARCH POINTER OR 2ND PLAY LIST SEARCH TABLE POINTER (PL SRP#2) 1758 (PL_SRPT) VIDEO . nTH VOB_ID IN VOB SEQ. MANAGER INFO. OR nTH PLAY LIST SEARCH MANAGEMENT POINTER (PL_SRP#n) TABLE (VMGI_MAT) RTR VIDEO MANAGER VTSI 1106 INFO. (RTR_VMGI) <u>은</u> (RTR_VMGI) MOVIE AV FILE INFO. VTS GENERAL (RTR. TABLE (M AVFIT) INFO. 1751 STILL PICTURE AV FILE RTR_VMG **VOB SEQUENCE** INFO. TABLE (S_AVFIT) INFO. 1752 ORIGINAL PGC INFO. PTT INFO. (ORG_PGC1) DATA 1753 USER DEFINED PGC VTS TIME MAP INFO. TABLE (UD_PGCIT) NAVIGATION NAVIGATION **TABLE 1754** TEXT DATA MANAGER (TXTDT_MG) MANUFACTURER'S INFO. TABLE (MNFIT) FIG. 8

	*						٠		
FIG. 9A				W	AV FILE 1401	01			
F16.9B			5	rs (or R	TR_MOV. V	VTS (OR RTR_MOV. VRO) 1402			
	V0B#1 1461	>-	V0B#2 1462		> -	V0B#3 1763		ARE	UNRECORDED AREA 1460
F16.90	EXTENT# a 1471		EXTENT# /3 1472	EXTENT# γ 1473		EXTENT# 8 1474	EXTENT# 1475	ω	EXTENT# \$ 1470
FIG. 9D				AV	AV FILE 1401	01			
F16.9E		VTS (0	VTS (OR RTR_MOV. VRO/RTR_STO. VRO/RTR_STA. VRO) 1402	. VRO/RTF	STO. VR	0/RTR_ST/	4. VRO) 14	02	
	30A_M	#180A	-,)/_S	S_V0G1#			
	V0B#A 1771	V0B#B 1772	V0B#C 1773	V0B#D 1774	V08#E 1775	V08#F 1776	V0B#G 1777	V0В#Н 1778	V08#1 1779
	VIDEO 0BJECTS	TS	AUD 10 0BJECTS	PICTURE 0BJECTS	URE CTS	AUD I O OBJECTS	0 CTS	THUMBNAIL	NA IL TS
F16.9F	1012	i	1014	1013		1014	Ē	1016	
	RTR_MOV. VRO RTR_STA. VRO	MOV. VRO-		RTR_STO. VRO-	TO. VRO→	1 .	-RTR_STA. VRO		·

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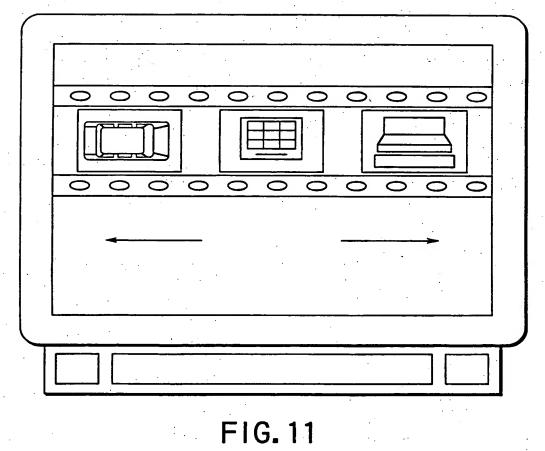
F16.10A	VOB FOR P	ICTURE OBJEC	FIG. 10A VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1631	IRE VOB GROUP RE	LATING TO S_	V0G1#) 1631
FIG. 10B			VOBU (FOR ONE STILL PICTURE) 1641	ILL PICTURE) 164		
	V_PCK 1661	V_PCK 1662	V_PCK 1663	SP_PCK 1681	A_PCK 1691	A_PCK 1692
FIG. 100	I-PIC	I-PICTURE 1706	DUMMY DATA	SP_STREAM	A_STREAM	A_STREAM
			-VIDEO PART		AUDIO PART	PART

F16.	10D	VOB FOR	PIC	FIG. 10D VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1632	ECTS (OR	STILL	티	RE VOB	SROUP RE	IATII	% TO S	190A	‡) 1632	
F16.	10E	FIG. 10E VOBU (ONE STI	E ST	TILL PICT.) 1642) 1642	V0BU 1643	U 16	43			NOB	V0BU 1644	44	
FIG 10F	10F	V_PCK		SP_PCK	SP_PCK	V_PCK	3	A_PCK V_PCK	V_PCK		V_PCK		A_PCK	. <u>· </u>

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FIG. 106 VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#) 1633	VOBU 1647	V_PCK	1705 1-PICTURE 1709	ART	ROUP RELATING TO S_VOGI#) 1634	V0BU 1650	A_PCK A_PCK 1701	
OR STILL PICTURE VOB GR	1645 VOBU 1646	SP_PCK V_PCK V_PCK 1683 1671 1672	SP_ STREAM I-PICTURE 1708	VIDEO PART	OR STILL PICTURE VOB GR	1648 VOBU 1649	A_PCK A_PCK A_PCK 1698 1700	AUDIO PART
VOB FOR PICTURE OBJECTS (0	VOBU (ONE STILL PICTURE) 1645	V_PCK V_PCK V_PCK 1668 1670	I-PICTURE 1707 DUMINY 1704	VIDEO PART	FIG. 10J VOB FOR PICTURE OBJECTS (OR STILL PICTURE VOB GROUP RELATING TO S_VOGI#)	VOBU (ONE STILL PICTURE) 1648	SP_PCK	AUDIO PART
FIG. 106	FIG. 10H		FIG. 101	:	FIG. 100	FIG. 10K	F16. 10L	

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STILL PICTURE AV FILE (S_AVFIT)

STILL PICTURE AV FILE INFO. TABLE INFO. (S_AVFITI)

STILL PICT. VOB STREAM INFO. #1 (S_VOB_STI#1)

STILL PICT. VOB STREAM INFO. #n (S_VOB_STI#n)

STILL PICTURE AV FILE INFO. (S_AVFI)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #1 (S_AA_STI#1)

STILL PICT. AD-DITIONAL AUDIO STREAM INFO. #m (S_AA_STI#m)

STILL PICTURE
ADDITIONAL
AUDIO FILE INFO.
(S AAFI)

VOB INFO. FOR
PICT. OBJECTS
MANAGEMENT
INFO. 1721
(OR S_AVFI_GI)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#1 1726 (OR
S_VOGI_SRP#1)
SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#1 1727 (OR
S_VOGI_SRP#i)

SEARCH POINTER
OF VOB INFO. FOR
PICT. OBJECTS
#k 1728 (OR
S_VOGI_SRP#k)

VOB INFO. FOR PICT. OBJECTS #1 1731 (OR S_VOGI#1)

VOB INFO. FOR PICT. OBJECTS #i 1732

(OR S VOGI#i)

VOB INFO. FOR PICT. OBJECTS #k 1733 (OR S_VOGI#k)

VOB GENERAL
INFORMATION
FOR PICTURE
OBJECTS
1736 (OR
STILL PICTURE
VOB GROUP
GENERAL INFO.
S_VOG_GI)

VOB ATTRIB.
INFORMATION
FOR PICTURE
OBJECTS
1737

VOBU MAP FOR PICTURE OBJECTS 1738 (OR STILL PICTIRE VOB ENTRES S_VOB_ENT#)

FIG. 12 #i=ANY ONE OF #1 TO #k

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VOB STILL PICT. ATTRIB. ENTRY TYPE INFO. (S_VOB_ FOR ENT_TY) PICT. OBJ. NUMBER OF 1737 STILL PICT. (OR NUMBER VOBU OF VOBUs) MAP IN CORRES-FOR . **PONDING** PICT. VOB 1801 OBJ. (OR 1738 S_VOB_Ns) $(S_VOB_$ INFO. OF 1ST ENT#) STILL PICT. IN CORRES-PONDING VOB 1802 VOB INFO. OF 2ND **GENERAL** STILL PICT. INFO. IN CORRES-1736 PONDING OR VOB 1803 S VOG_ INFO. OF 3RD GI STILL PICT. IN CORRES-

DATA SIZE OF STILL PICTURE (OR VOBU) INDICATED BY USED SECTORS 1806 (OR VIDEO PART SIZE V PART SZ/ AUDIO PART SIZE A PART SZ) DISPLAY TIME OF ONE STILL PICTURE 1807 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOBU CONTAINS A_PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOBU CONTAINS NO A PCK) ADDRESS OF 1ST V PCK IN VOBU 1808 (OR S_VOG_SA) SIZE OF I-PICTURE IN VOBU (INDICATED BY TOTAL BYTES) 1809 🔍 PRESENTATION START TIME S PTM OF STILL PICTURE (V_PCK/SP_PCK) 1810 1ST SYSTEM CLOCK REFERENCE F SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1811 ADDRESS OF 1ST A_PCK IN VOBU 1812 AUDIO S PTM (PRESENTATION START TIME OF A_PCK) 1813 AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1814 AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOBU) 1815

AUDIO L SCR (SYSTEM CK REF.

OF LAST A_PCK IN VOBU) 1816

PLAYBACK TIME OF AUDIO PART A_PB_TM

PONDING

VOB 1804

FIG. 13

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F1G. 14A				NOB	B #A 1821	21		-		i
	V0BU 1825	1825	>	V0BU 1826	9			800	V0BU 1827	-
FIG. 14B	STILL PICT. NO.	T. NO. 1	STILL	STILL PICT. NO.	NO. 2		*	STILL	STILL PICT. NO. h	-:-
	STLPCT	AUDIO	STLPCT	PCT	AUD10	STLPCT	TJ-	STLPCT	AUDIO	
	1831	1841	1832	2	1842	1833	3	1834	1843	
	V_PCK	A_PCK	V_PCK	SP_PK		V_PCK	CK	YDd_V	A_PCK	:
716.14C	1851	1861	1852	1848	1862	1853	3	1854	1863	
w.	CONTENTS	Ş	1ST N					LAST	ST STILL PICT.	_
(SPECIFIED	↑		SP PK	A PCK	> Pg	ਤ ਤ	> 		
FIG. 14D	BY CELL		1852	1848	71865	1853	က	1854	+	
٠				٨				\		1 . 1
		A_PCK	V_PCK	A_PCK	V_PCK		V_PCK	A_PCK	V_PCK	
		1864	1855	1865	1856		1857	1866	1858	
* ,	-	AUDIO	STLPCT	AUDIO	STLPCT		STLPCT	AUDIO	STLPCT	
F16.14E		1844	1835	1845	1836		1837	1846	1838	
			CTILL D	CTIDE			L I	ا میں ایال		_
	•		NO. j	IC I UNE			NO. h+j-2	1010ME		
FIG. 14F	•		V0BU 1828	1828			V0BU 1829	1829	·÷;-	-
					of off					_
716.14G				00	VOB #B 1822	22	1			

CONTENTS (S_CI) OF CELL PLAYBACK INFO. (CI) FOR PICTURE OBJECTS 1870	EXAMPLE 1871 WITH RESPECT TO FIG.14	EXAMPLE 1872 WITH RESPECT TO FIG.14
CELL ID (CI_SRP) 1873		-
TYPE INFORMATION OF CELL (C_TY) 1880		
ID INFORMATION OF VOB WITH V_PCK 1874	VOB #A	1821
STILL PICT. NUMBER 1875 IN VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL (S_S_VOB_ENTN)	2	1826
STILL PICT. NUMBER 1876 IN VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL (E_S_VOB_ENTN)	h	1827
ID INFORMATION OF VOB WITH A_PCK 1877	VOB #B	1822
STILL PICT. NUMBER 1878 IN VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL	j	1828
PRESENTATION TIME 1879 OF EACH STILL PICTURE HAVING NO CORRESPONDING A_PCK	2 SECONDS (ONE LINE)	

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CONTENTS OF CELL PLAYBACK INFO. (CI) FOR PTT
CONTENTS OF CELE PEATBACK THEO. (CT) FOR THE
CELL ID (CI_SRP) 1883
TYPE INFO. OF CELL (C_TY) 1882
ID INFO. OF PTT WITH V_PCK 1884
STILL PICTURE NUMBER 1885 IN PTT OF VOB INCLUDING V_PCK OF 1ST STILL PICTURE IN CELL
STILL PICTURE NUMBER 1886 IN PTT OF VOB INCLUDING V_PCK OF LAST STILL PICTURE IN CELL
ID INFO. OF PTT WITH A_PCK 1887
STILL PICTURE NUMBER 1888 IN PTT OF VOB INCLUDING A_PCK OF 1ST STILL PICTURE IN CELL
PRESENTATION TIME 1889 OF EACH STILL PICT. HAVING NO CORRESPONDING A_PCK

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STILL PICTURE AV FILE INFO. (S_AVFI) FOR PTT (CHAPTER)

PTT INFO. FOR PICT. OBJECTS MANAGEMENT INFO. 1891

SEARCH POINTER OF PTT INFO. FOR PICT. OBJECTS #1 1892

SEARCH POINTER OF PIT INFO. FOR PICT. OBJECTS #2 1893

PTT INFO. FOR PICT. OBJECTS #1 1895

PTT INFO. FOR PICT. OBJECTS #2 1896

PTT GENERAL INFORMATION FOR PICTURE OBJECTS 1898

VOB MAP FOR PICTURE OBJECTS 1899

FIG. 17

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VOB MAP FOR PICT. OBJECTS 1899

NUMBER OF STILL PICT. (OR NUMBER OF VOBs) IN CORRESPONDING PTT 1901 (OR S_VOB_Ns)

INFO. OF 1ST STILL PICT. IN CORRESPONDING PTT 1902

INFO. OF 2ND STILL PICT. IN CORRESPONDING PTT 1903 DATA SIZE OF STILL PICTURE (OR VOB) INDICATED BY USED SECTORS 1906

DISPLAY TIME OF ONE STILL PICTURE 1907 REPRESENTED BY PLAYBACK TIME OF AUDIO PART (IF VOB CONTAINS A_PCK) OR REPRESENTED BY DISPLAY TIME OF VIDEO PART (IF VOB CONTAINS NO A_PCK)

ADDRESS OF 1ST V_PCK IN VOB 1908 (OR S_VOG_SA)

SIZE OF I-PICTURE IN VOB (INDICATED BY TOTAL BYTES) 1909

PRESENTATION START TIME S_PTM OF STILL PICTURE (V_PCK/SP_PCK) 1910

1ST SYSTEM CLOCK REFERENCE F_SCR OF STILL. PICTURE (V_PCK/SP_PCK) 1911

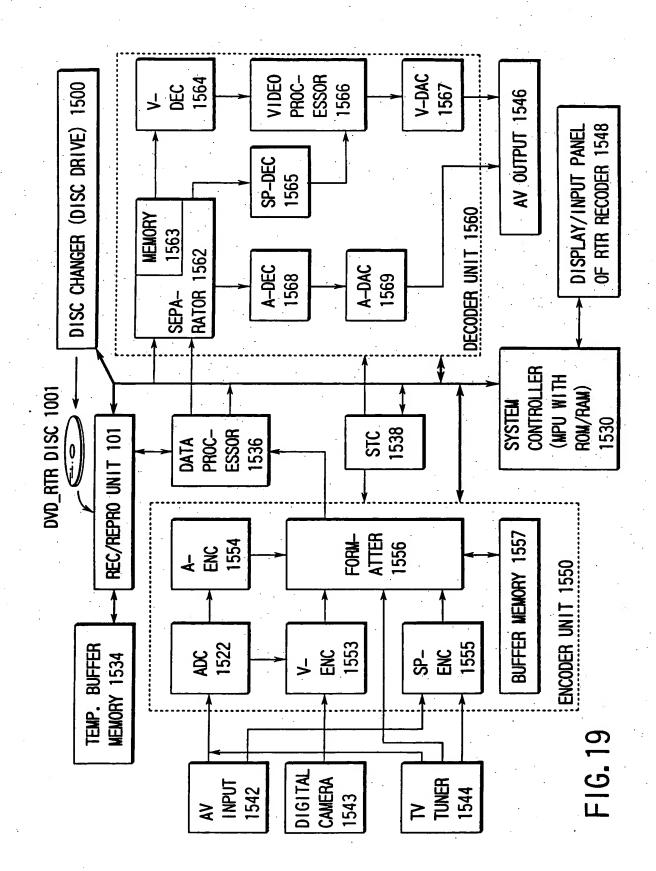
ADDRESS OF 1ST A_PCK IN VOB 1912

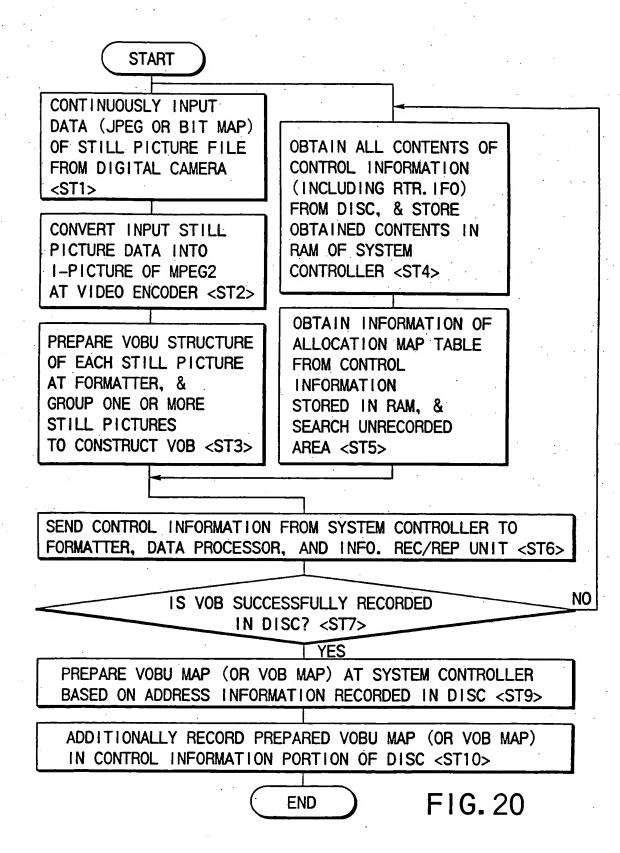
AUDIO S_PTM (PRESENTATION START TIME OF A_PCK) 1913

AUDIO E_PTM (PRESENTATION END TIME OF A_PCK) 1914

AUDIO F_SCR (SYSTEM CK REF. OF 1ST A_PCK IN VOB) 1915

AUDIO L_SCR (SYSTEM CK REF. OF LAST A_PCK IN VOB) 1916





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START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR. 1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <ST14>

ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB, & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

RECEIVE ADDITIONAL INFO. INPUT BY USER WHILE DISPLAYING AV OUTPUT, & GROUP ONE OR MORE STILL PICTURES AT FORMATTER BASED ON USER-INPUT INFORMATION TO PREPARE VOB OR PTT <ST19>

RECORD INFORMATION OF VOB PREPARED BY FORMATTER <ST20>

END

FIG. 21

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START

OBTAIN ALL CONTENTS OF CONTROL INFORMATION (RTR. 1FO) FROM DISC, & STORE OBTAINED CONTENTS IN RAM OF SYSTEM CONTROLLER <ST11>

OBTAIN PLAYBACK CONTROL INFO. FROM CONTROL INFO. STORED IN RAM, & INTERPRETE OBTAINED INFORMATION AS TO MANNER OF REPRODUCTION <ST12>

SEARCH PROGRAM TO BE REPRODUCED BASED ON PGC CONTROL INFO. IN RAM, OBTAIN CELL(S) IN PGC INFORMATION OF SEARCHED PROGRAM, & OBTAIN VOB_ID OR PTT_ID SPECIFIED BY CORRESPONDING CELL FROM CELL PLAYBACK INFORMATION STORED IN RAM <ST13>

OBTAIN DISC ADDRESS OF VOB TO BE REPRODUCED BASED ON VOB INFORMATION OR PTT INFORMATION STORD IN RAM <\$T1.4>

ACCESS VOB RECORDED IN DISC BASED ON CONTROL SIGNAL FROM SYSTEM CONTROLLER TO REPRODUCE INFORMATION OF VOB. & PROVIDE REPRODUCED INFORMATION AS AV OUTPUT FOR DISPLAY <ST18>

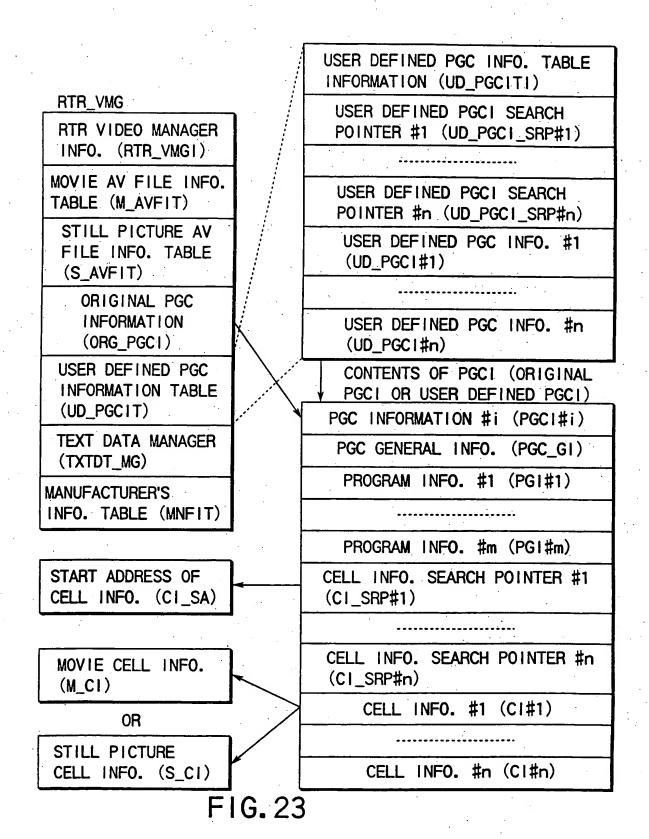
ACCESS VOB #A RECORDED IN DISC TO PROVIDE STILL PICTURE INFORMATION OF VOB #A <ST16>

ACCESS VOB #B IN DISC TO REPRODUCE AUDIO INFORMATION OF VOB #B, & PROVIDE AUDIO INFO. OF VOB #B AND STILL PICTURE INFO. OF VOB #A AS AV OUTPUT FOR STILL PICTURE DISPLAY WITH SOUND <ST17>

END

FIG. 22

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STILL PICTURE CELL INFO. (S_CI)

STILL PICTURE CELL GENERAL INFORMATION (S_C_GI)

STILL PICT. CELL ENTRY POINT INFORMATION #1 (S_C_EPI#1)

STILL PICT. CELL ENTRY POINT INFORMATION #n (S_C_EPI#n)

FIG. 24

CONTENTS OF S_C_GI

FIELD NAME	CONTENTS
RESERVED	RESERVED
C_TY	CELL TYPE
S_VOGI_SRPN	S_VOGI SEARCH POINTER NUMBER
C_EPI_Ns	NUMBER OF CELL ENTRY POINT INFO.
S_S_VOB_ENTN	START S_VOB_ENT NUMBER
E_S_VOB_ENTN	END S_VOB_ENT NUMBER

FIG. 25

CONTENTS OF S_C_EPI

FIELD NAME	CONTENTS
EP_TY	ENTRY POINT TYPE
S_VOB_ENTN	S_VOB_ENT NUMBER
PRM_TXT1	PRIMARY TEXT INFORMATION

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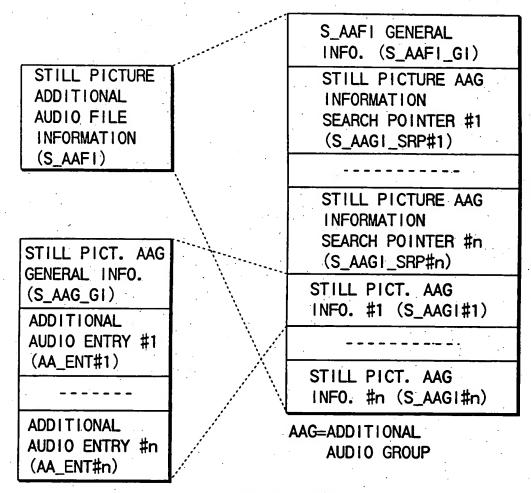


FIG. 27

CONTENTS OF S_AAG_GI

FIELD NAME	CONTENTS
AA_ENT_Ns	NUMBER OF AA_ENT
S_AA_STIN	STILL PICTURE ADDITIONAL AUDIO STREAM INFORMATION NUMBER
S_AAG_SA	START ADDRESS OF THIS AAG IN STILL PICTURE ADDITIONAL AUDIO FILE

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CONTENTS OF AA_ENT

FIELD NAME	CONTENTS
AA_TY	ADDITIONAL AUDIO TYPE
AA_SZ	SIZE OF ADDITIONAL AUDIO STREAM
AA_PB_TM	PLAYBACK TIME OF ADDITIONAL AUDIO STREAM (MEASURED BY VIDEO FIELDS)

FIG. 29

CONTENTS OF S_VOG_GI

FIELD NAME	CONTENTS
S_V0B_Ns	NUMBER OF S_VOBs
S_VOB_STIN	STILL PICTURE VOB STREAM INFORMATION NUMBER
FIRST_VOB_REC_TM	TIME WHEN THE FIRST VOB IN THIS VOB GROUP WAS RECORDED
LAST_VOB_REC_TM	TIME WHEN THE LAST VOB IN THIS VOB GROUP WAS RECORDED
S_VOG_SA	START ADDRESS OF THIS VOB GROUP IN STILL PICTURE AV FILE

FIG. 30

CONTENTS OF S_VOB_ENT (TYPE 1)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART

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CONTENTS OF S_VOB_ENT (TYPE 2)

FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
A_PART_SZ	SIZE OF ORIGINAL AUDIO PART
A_PB_TM	PLAYBACK TIME OF AUDIO PART (DESCRIBED IN VIDEO FIELDS)

FIG. 32

CONTENTS OF S_VOB_ENT (TYPE 3)

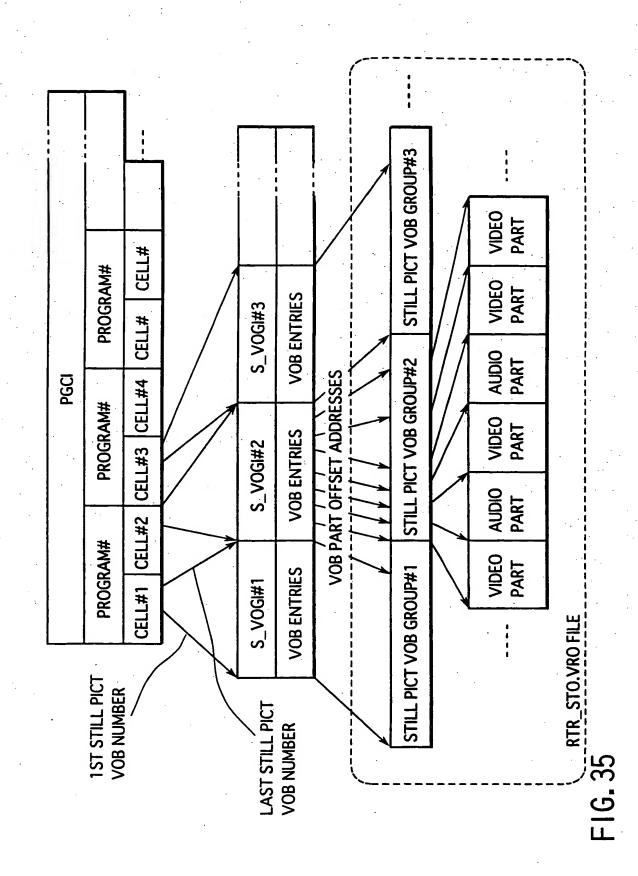
FIELD NAME	CONTENTS
S_VOB_ENT_TY	STILL PICTURE VOB ENTRY TYPE
V_PART_SZ	SIZE OF VIDEO PART
S_AAGN	ADDITIONAL AUDIO GROUP NUMBER
AA_ENTN	AA_ENT NUMBER

FIG. 33

CONTENTS OF S_VOB_ENT (TYPE 4)

CONTENTS
STILL PICTURE VOB ENTRY TYPE
SIZE OF VIDEO PART
SIZE OF ORIGINAL AUDIO PART
PLAYBACK TIME OF AUDIO PART
ADDITIONAL AUDIO GROUP NUMBER
AA_ENT NUMBER

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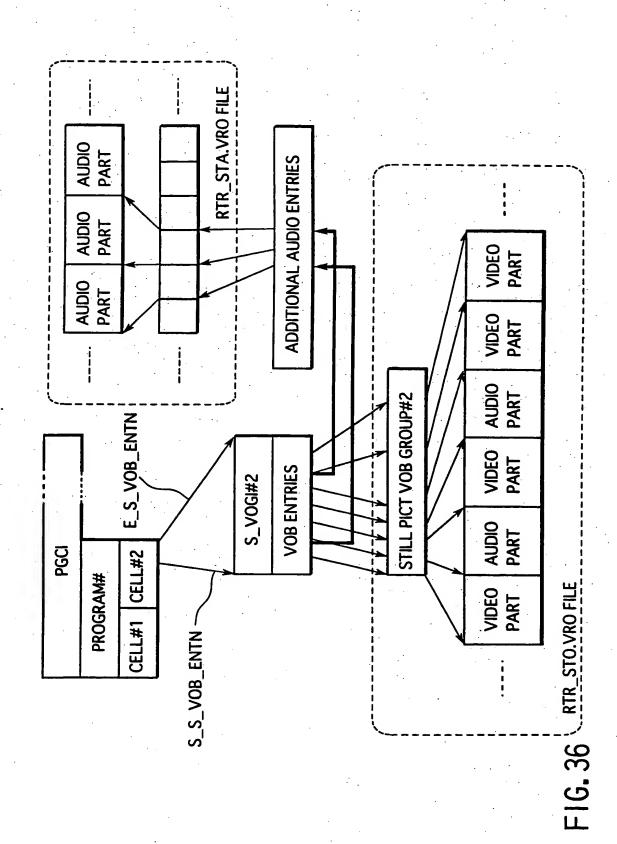


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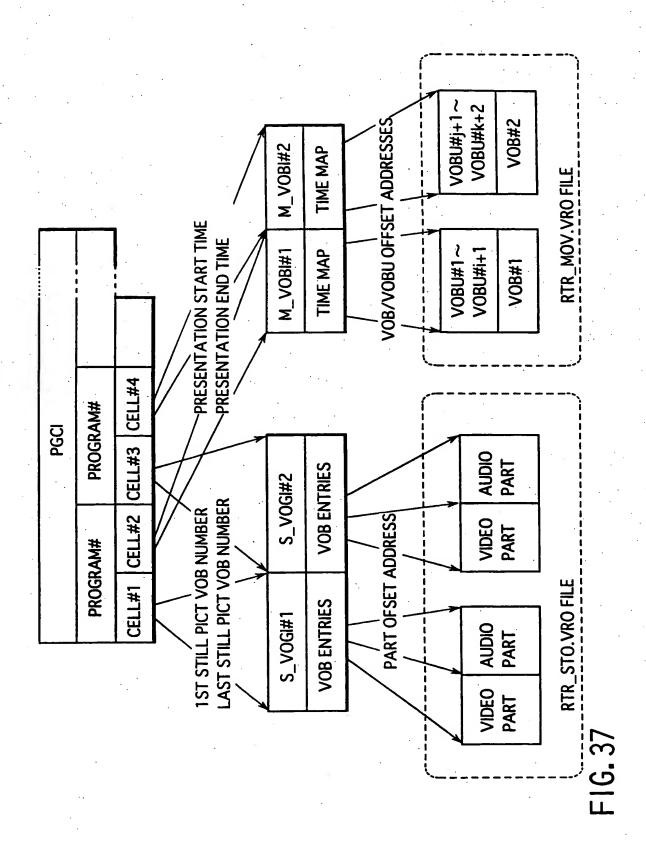
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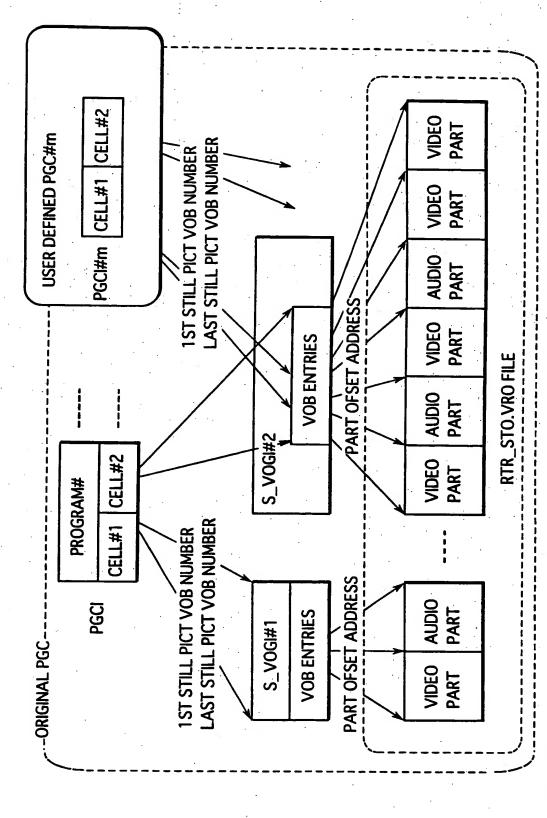
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